

What is claimed is:

1. A latching and electrical connection device for an appliance having a door, comprising:
 - a bar that latches the door in a closed position; and
 - a first electrical connector attached to the bar that provides an electrical connection between the bar and the appliance when the bar is in a latched position.
2. The door latching and electrical connection device of claim 1, wherein the bar has two ends and the electrical connector is attached to one end of the bar.
3. The door latching and electrical connection device of claim 1, further comprising a handle attached to the bar.
4. The door latching and electrical connection device of claim 1, further comprising:
 - a combustion device having a combustion chamber;
 - an attaching member configured to secure one end of the bar to the combustion device in a manner to cause the bar to block the door from opening when the bar is in the latched position; and
 - a second electrical connector configured to mate with the first electrical connector and provide an electrical connection when the bar is in the latched position.
5. The door latching and electrical connection device of claim 4, further

comprising:

insulation mounted on the bar and configured to, impede heat transfer from the combustion device to the bar.

6. The door latching and electrical connection device of claim 4, further comprising electrical insulation surrounding the electrical connector and configure to insulate the electrical connector from the bar.

7. The door latching and electrical connection device of claim 4, wherein the bar is contoured to compliment the shape of the door.

8. The door latching and electrical connection device of claim 4, wherein combustion may only be initiated in the combustion chamber when an electrical connection is made by the first electrical connector with the second electrical connector.

9. The door latching and electrical connection device of claim 4, wherein one of the first and second electrical connectors includes a plug with keyed prongs.

10. The door latching and electrical connection device of claim 4, wherein combustion can only occur in the combustion chamber when an electrical connection exists between the first electrical connector and the second electrical connector.

11. A door latching and electrical connection device for an appliance having a

door, comprising:

means for latching the door closed; and

first means providing an electrical connection between the latching means and the appliance when the door is latched closed.

12. The door latching and electrical connection device of claim 11, further comprising means for gripping the latching means.

13. The door latching and electrical connection device of claim 11, further comprising:

a combustion device having a combustion chamber;

a door attached to the combustion device and configured to provide access to the combustion chamber;

an attaching member configured to secure one end of the latching means to the combustion device in a manner to cause the latching means to block the door from opening; and

a second means for providing an electrical connection configured to mate with the first means for providing an electrical connection to provide an electrical connection when the door is latched closed by the latching means.

14. The door latching and electrical connection device of claim 13, further comprising:

means for impeding heat transfer from the combustion device to the latching means.

15. The door latching and electrical connection device of claim 13, further

comprising electrical insulation surrounding the means for providing an electrical connection and configured to insulate the electrical connection from the latching means.

16. The door latching and electrical connection device of claim 13, wherein combustion may only be initiated in the combustion chamber when an electrical connection is made between the first means for providing an electrical connection and the second means for providing an electrical connection.

17. The door latching and electrical connection device of claim 13, wherein combustion may only occur in the combustion chamber when an electrical connection exists between the first means for providing an electrical connection and the second means for providing an electrical connection.

18. A method of securing a door mounted on a device and making an electrical connection comprising:

blocking the door with a latching bar;

providing an electrical connector on the bar; and

making an electrical connection by connecting the electrical connector to a second electrical connector mounted on the device when the bar is blocking the door.

19. The method of claim 18, further comprising breaking the electrical connection when the bar is not blocking the door.

20. The method of claim 18, further comprising sending an electronic signal

through the electrical connection to initiate burning in the combustion chamber.

21. The method of claim 18, further comprising moving the bar using handles on the bar.

22. The method of claim 18, further comprising stopping combustion in the device when the electrical connection is broken.

23. An apparatus, comprising:
a bar configured to mount on the combustion device and block the door;
a first electrical connector attached to the bar; and
a second electrical connector configured to mate with the electrical connector and provide an electrical connection when the bar is blocking the door;
and to disable the conduction chamber when the door is not blocked by preventing the electrical connection when the door is not blocked.